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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,269	07/08/2003	Anup K. Sharma	SUNMP227	1695
32291 7	32291 7590 11/15/2005		EXAMINER	
MARTINE PENILLA & GENCARELLA, LLP			CHAUDRY, MUJTABA M	
710 LAKEWAY DRIVE			ART UNIT	PAPER NUMBER
SUITE 200 SUNNYVALE, CA 94085			2133	PAPER NOMBER

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

10 Sec. 10

	Application No.	Applicant(s)				
·	10/616,269	SHARMA ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Mujtaba K. Chaudry	2133				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be tim  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONEI	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
<ul> <li>1)  Responsive to communication(s) filed on <u>08 Jules</u></li> <li>2a)  This action is FINAL. 2b)  This</li> <li>3)  Since this application is in condition for alloware closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 December 2003</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objector drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/20/2005.</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Po 6) Other:					

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#### **DETAILED ACTION**

## Information Disclosure Statement

The information disclosure statement (IDS) submitted on June 20, 2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the Examiner.

#### Oath/Declaration

The Oath filed July 08, 2003 complies with all the requirements set forth in MPEP 602 and therefore is accepted.

### **Drawings**

The drawings filed December 09, 2003 are accepted.

### Specification

The specification filed July 08, 2003 is accepted.

### Claim Objections

Claim 1 is objected to because of the following informalities:

- In line 4, the phrase "...a first microprocessor..." should be "...the first microprocessor..." to maintain proper antecedent.

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Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 7, the phrase, "...appending a first value derived from the data packet to the data packet..." is not clear. It's not clear if the first value is derived from the entire data packet, which includes the header/address portion or just the data portion of the packet. In other words is the first value based solely on the data of the data packet?

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "...external error checking module..." is not clear since external is a relative term and the claim does not say what it is external to.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35

U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

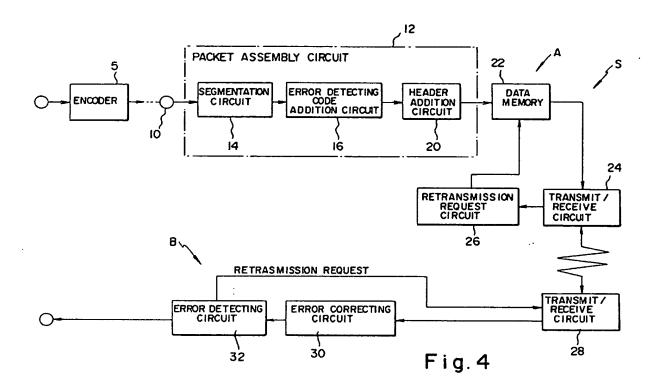
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (USPN 5844918) further in view of (AAPA) Applicant's Admitted Prior Art.

As per claim 1, Kato substantially teaches (abstract) an error correcting code including of basic data and a BCH-based parity code appended thereto is divided into smaller packets. An error detecting code is appended to each of the thus-divided packets, so that transmission basic data is formed. When the transmission basic data is received, the basic data and a BCH-based parity code are derived from the transmission basic data. Error correcting is carried out with respect to the overall transmission basic data. An error detecting operation is carried out with respect to each packet using the error detecting code. If a packet is found to contain errors, a request for retransmission of that packet will be sent to the sending side. In particular, Kato teaches (Figure 4) a communication system with all the essentials of the present application.

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Kato does not explicitly teach transmitting the data from a first microprocessor to a second microprocessor as stated in the present application.

However, Kato does teach (Figure 4) a communication system which comprises of a transmitter and receiver. The Examiner would like to point out that it is well known in the art that it is inherent for transmitters and receivers to have microprocessors. AAPA also teaches (pages 1-2 and Figure 1) a communication of two microprocessors. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kato by implementing the communications between two microprocessors. This modification would have been to one of ordinary skill in the art because one of ordinary would have recognized that the communication system in the teachings of Kato and the environment of

AAPA are compatible and would have been an efficient way of transmitting digital data from a source A to destination B.

As per claim 2, AAPA substantially teaches, in view of above rejections, the use of appending a CRC (page 1, lines 20-22). The Examiner would like to point out that appending CRC is also taught by Kato (Figure 2c).

As per claim 3, Kato substantially teaches, in view of above rejections, (Figure 9) to detect errors in received data using parity check. The Examiner would like to point out that if the parity check detects and error than it is highly likely that the CRC will be corrupted as stated in the present application.

As per claim 4, Kato substantially teaches, in view of above rejections, (Figure 9, reference number S37) to request for retransmit the packet that is to be retransmitted.

As per claims 5 and 6, Kato substantially teaches, in view of above rejections, (Figure 4) the header addition circuit 120 generates a transmission data packet by further appending a packet header to the data segment complete with the CRC code and the BCH-based parity code, as shown in FIG. 2e. The Examiner would like to point out that the header portion of the packet is well known to include address information.

As per claim 7, Kato substantially teaches (abstract) an error correcting code including of basic data and a BCH-based parity code appended thereto is divided into smaller packets. An error detecting code is appended to each of the thus-divided packets, so that transmission basic data is formed. When the transmission basic data is received, the basic data and a BCH-based parity code are derived from the transmission basic data. Error correcting is carried out with respect to the overall transmission basic data. An error detecting operation is carried out with

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respect to each packet using the error detecting code. If a packet is found to contain errors, a request for retransmission of that packet will be sent to the sending side. In particular, Kato teaches (Figure 4) a communication system with all the essentials of the present application.

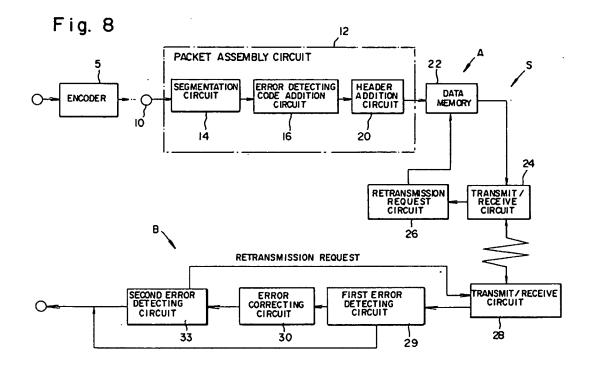
Kato does not explicitly teach transmitting the data from a first microprocessor to a second microprocessor as stated in the present application.

However, Kato does teach (Figure 4) a communication system which comprises of a transmitter and receiver. The Examiner would like to point out that it is well known in the art that it is inherent for transmitters and receivers to have microprocessors. AAPA also teaches (pages 1-2 and Figure 1) a communication of two microprocessors. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kato by implementing the communications between two microprocessors. This modification would have been to one of ordinary skill in the art because one of ordinary would have recognized that the communication system in the teachings of Kato and the environment of AAPA are compatible and would have been an efficient way of transmitting digital data from a source A to destination B.

As per claim 8, Kato substantially teaches, in view of above rejections, (Figure 8) to detect errors in first error detecting circuit 29.

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As per claim 10, Kato substantially teaches, in view of above rejections, (Figure 8, reference number S14) to request for retransmit the packet that is to be retransmitted. The Examiner would like to point out that the segmentation circuit 14 serializes the data prior to transmission.

As per claims 9 and 11, Kato substantially teaches, in view of above rejections, (Figure 4) the header addition circuit 120 generates a transmission data packet by further appending a packet header to the data segment complete with the CRC code and the BCH-based parity code, as shown in FIG. 2e. The Examiner would like to point out that the header portion of the packet is well known to include address information.

As per claim 12, Kato substantially teaches, in view of above rejections, (Figure 9, reference number S37) to request for retransmit the packet that is to be retransmitted.

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As per claim 13, AAPA substantially teaches, in view of above rejections, the use of appending a CRC (page 1, lines 20-22). The Examiner would like to point out that appending CRC is also taught by Kato (Figure 2c).

As per claim 14, Kato substantially teaches (abstract) an error correcting code including of basic data and a BCH-based parity code appended thereto is divided into smaller packets. An error detecting code is appended to each of the thus-divided packets, so that transmission basic data is formed. When the transmission basic data is received, the basic data and a BCH-based parity code are derived from the transmission basic data. Error correcting is carried out with respect to the overall transmission basic data. An error detecting operation is carried out with respect to each packet using the error detecting code. If a packet is found to contain errors, a request for retransmission of that packet will be sent to the sending side. In particular, Kato teaches (Figure 4) a communication system with all the essentials of the present application.

Kato does not explicitly teach transmitting the data from a first microprocessor to a second microprocessor as stated in the present application.

However, Kato does teach (Figure 4) a communication system which comprises of a transmitter and receiver. The Examiner would like to point out that it is well known in the art that it is inherent for transmitters and receivers to have microprocessors. AAPA also teaches (pages 1-2 and Figure 1) a communication of two microprocessors. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kato by implementing the communications between two microprocessors. This modification would have been to one of ordinary skill in the art because one of ordinary would have recognized that the communication system in the teachings of Kato and the environment of

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AAPA are compatible and would have been an efficient way of transmitting digital data from a source A to destination B.

As per claim 15, Kato substantially teaches, in view of above rejections, (Figure 4) the header addition circuit 120 generates a transmission data packet by further appending a packet header to the data segment complete with the CRC code and the BCH-based parity code, as shown in FIG. 2e. The Examiner would like to point out that the header portion of the packet is well known to include address information.

As per claim 16, Kato substantially teaches, in view of above rejections, (Figure 9, reference number S37) to request for retransmit the packet that is to be retransmitted.

As per claim 17, Kato substantially teaches, in view of above rejections, (Figure 8, reference number S14) to request for retransmit the packet that is to be retransmitted. The Examiner would like to point out that the segmentation circuit 14 serializes the data prior to transmission.

As per claims 18-19, AAPA substantially teaches, in view of above rejections, the use of appending a CRC (page 1, lines 20-22). The Examiner would like to point out that appending CRC is also taught by Kato (Figure 2c).

#### Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Additional pertinent prior arts are included herein for Applicant's review.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817.

The examiner can normally be reached on Mon-Thur 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mujtaba Chaudry Art Unit 2133 November 3, 2005

aba Chaudry PRIMARY EXAMINE